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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/052,553	01/23/2002		In Chul Jeong	0465-0838P-SP	5490
2292	7590	7590 04/25/2005		EXAMINER	
		KOLASCH & BIR	STINSON, F	STINSON, FRANKIE L	
PO BOX 74 FALLS CHI		22040-0747	ART UNIT	PAPER NUMBER	
				1746	
				DATE MAIL ED. 04/25/200	-

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/052,553	JEONG ET AL.
Office Action Summary	Examiner	Art Unit
	FRANKIE L. STINSON	1746
The MAILING DATE of this comm Period for Reply	nunication appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provisi after SIX (6) MONTHS from the mailing date of this cual if the period for reply specified above, the maximur - Failure to reply within the set or extended period for re	JNICATION. ions of 37 CFR 1.136(a). In no event, however, may a rommunication. by (30) days, a reply within the statutory minimum of thir n statutory period will apply and will expire SIX (6) MON eply will, by statute, cause the application to become AE ths after the mailing date of this communication, even if	eply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s)	filed on <u>01 April 2005</u> .	
2a)☐ This action is FINAL.	2b)⊠ This action is non-final.	·
3)☐ Since this application is in conditi	on for allowance except for formal matt	ers, prosecution as to the merits is
closed in accordance with the pra	actice under <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1,3,4 and 8-22</u> is/are pe	nding in the application.	
	s/are withdrawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1,3,4,, 8, 9 and 19-22</u> is/	/are rejected.	
7)☐ Claim(s) is/are objected to		
8) Claim(s) are subject to res	triction and/or election requirement.	
Application Papers		
9) The specification is objected to by	the Examiner.	
10) The drawing(s) filed on is/a		by the Examiner.
	bjection to the drawing(s) be held in abeyar	
Replacement drawing sheet(s) include	ling the correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected	d to by the Examiner. Note the attached	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12)☐ Acknowledgment is made of a cla	im for foreign priority under 35 U.S.C. 8	6 119(a)-(d) or (f).
a) All b) Some * c) None of	* ' '	
	ity documents have been received.	
_	ity documents have been received in A	pplication No
3.☐ Copies of the certified copie	es of the priority documents have been	received in this National Stage
application from the Interna	ational Bureau (PCT Rule 17.2(a)).	
* See the attached detailed Office ad	ction for a list of the certified copies not	received.
Attachment(s)		(DTO 442)
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Revieu	v (PTO-948) Paper No(s	Summary (PTO-413) s)/Mail Date
3) Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date 4/1/2005.	- (nformal Patent Application (PTO-152)
U.S. Patent and Trademark Office		
PTOL-326 (Rev. 1-04)	Office Action Summary	Part of Paper No./Mail Date 2

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1. In view of applicant's remarks filed April 1, 2005, the Final Rejection dated December 1, 2005 is hereby withdraw in favor of the action that follows below.

2. Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Re claim 9, line 2, the phrase "the structure" is without proper antecedent basis.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims1, 3, 4 and 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stone (U. S. Pat No. 2,864,175) in view of either O'Neil (U. S. Pat No. 2,608,769), Warhus (U. S. Pat No. 2,881,633), Kim et al. (U. S. Pat No. 5,983,420) or Czech (U. S. Pat No. 2,940,179).

Re claim 1, Stone is cited disclosing a washing machine comprising.

a first tub(3);

a second tub (2) disposed in the first tub;

at least one circulation duct (27, 44) operatively coupled with the first tub to receive air from the second tub, dehumidify the air and recirculate the dehumidified air back into the second tub to dry laundry in the second tub during a drying operation of the washing machine; and

a water supplying duct (60, 71, 80) for supplying external water to a part of the

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inside of an inner wall of the at least one circulation duct to flow down the inner wall (see col. 5, lines26-43) from said part and come in contact with air received in the duct to dehumidify the air in the at least one circulation duct, that differs from the claim only in the recitation of the water supplying duct supplying water to an upper part of the circulation duct. Given the arrangement of the duct (see fig. 1) in Stone with the circuit starting at the bottom of the tub as at 27, extending upwardly to the fan 41, the position of the duct (60, 71, 80) could be considered to meet the limitation of the "upper part". nonetheless, the patents to O'Neil (as at 124, see fig. 5), Warhus (as at 29, see fig. 1), Kim (as at 24, see fig. 1) and Czech (as at 78), are each cited disclosing that it is old and well known to position in a drying circuit/duct, a water supply in an upper part their respective circulation duct. It therefore would have been obvious to one having ordinary skill in the art to modify the position of the water supplying duct (60, 71, 80) in Stone, to be positioned in an upper part of the circulation duct as taught by either O'Neil, Warhus, Kim or Czech, for the purpose of increasing the length of time the moisture laden air from the tub, contacts/mixes with the cooling/condensing water, thereby increasing the amount of moisture removed from the air traveling there through. This effectively creates a longer/larger cooling surface area of the duct. Re claim 3, Stone discloses the fan (41) and heater(48). Re claim 4, Stone discloses the fan as a sirocco type fan. Re claim 20, Stone discloses the drain duct (55). Re claim 21, Stone discloses the spaced location as claimed. Re claim 22, Czech discloses the plurality of grooves (75).

5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over the applied prior art as applied to claim 1 above, and further in view of Japan'857.

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Claim 8 defines over the applied prior art only in the recitation of the plural helical grooves provided at an inner wall surface of the circulation duct. Japan'857 is cited disclosing a circulation duct have a helical groove therein. It therefore would have been obvious to one having ordinary skill in the art to modify the device of Stone, to include a helical groove as taught by Japan'857, for the purpose of efficiently discharging a large volume of condensate. To employ a plurality of helical groves is deemed to be a mere duplication or parts (see MPEP 2144.04 REVERSAL, DUPLICATION OR RE-ARRANGEMENT OF PARTS).

6. Claims 9 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applied prior art as applied to claim 1 above, and further in view of either Fukumoto et al. (U. S. Pat. No. 6,282,928), Japan'296, Kadoya et al. (U. S. Pat No. 5,111,673) or Hirose et al. (U. S. Pat No. 5,074,131).

Claim 19 defines over the applied prior art only in the recitation of the pulsator being operatively coupled to the first and second tubs. Fukumoto, Japan'296, Kadoya and Hirose are each cited disclosing the pulsator. It therefore would have bee obvious to one having ordinary skill in the art to modify the device or either Stone to include a pulsator as taught by either Fukumoto, Japan'296, Kadoya or Hirose since they are considered to be the equivalent to one another see (MPEP 2144.06 SUBSTITUTING EQUIVALENTS KNOWN FOR THE SAME PURPOSE). Re claim 9, Fukumoto (see fig. 2, col. 6, lines 39-49) is cited disclosing external supply duct and fan.

7. Applicant's arguments with respect to claims 1-22 have been considered but are most in view of the new ground(s) of rejection.

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It is noted that upon the allowance of a generic claim the claims withdrawn as per the Election of Species, dated March 8, 2004, as per Office policy.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. In George, Izeki, Jacobs, Pfleider, Pugh and Roh et al., note the washing, drying and/or dehumidifying arrangements.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRANKIE L. STINSON whose telephone number is (572) 272-1308. The examiner can normally be reached on M-F from 5:30 am to 2:00 pm and some Saturdays from approximately 5:30 am to 11:30 am.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr, can be reached on (571) 272-1700. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

FRANKIE L. STINSON Primary Examiner **GROUP ART UNIT 1746**

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